

Department of Mechanical Engineering, SGSITS-Indore
B.Tech, Course Articulation Matrix 2023-24

II YEAR, SEM A July-Dec 2023

Subject Nomenclature: Fluid Mechanics

Subject Code: ME26011

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	–	–	–	–	–	–	–	–	–	3	3	1
CO2	3	1	1	–	–	–	–	–	–	–	–	3	2	1
CO3	3	1	–	–	–	–	–	–	–	–	–	3	1	1
CO4	3	1	–	–	–	–	–	–	–	–	–	3	1	1
CO5	3	1	–	–	–	–	–	–	–	–	–	3	1	1
	3	1	1	–	–	–	–	–	–	–	–	3	1.6	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

II YEAR, SEM A July-Dec 2023

Subject Nomenclature: Strenght of Materials

Subject Code: ME26002

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	–	–	–	–	–	–	–	–	3	3	1
CO2	3	3	2	–	–	–	–	–	–	–	–	3	3	1
CO3	3	2	2	–	–	–	–	–	–	–	–	3	3	1
CO4	3	2	2	–	–	–	–	–	–	–	–	3	3	1
CO5	3	2	2	–	–	–	–	–	–	–	–	3	3	1
	3	2.2	2	–	–	–	–	–	–	–	–	3	3	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

II YEAR, SEM A July-Dec 2023

Subject Nomenclature: MATHEMATICS-III

Subject Code: MA26004

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	1	–	–	–	–	1	–	–	3	–	–
CO2	3	3	2	1	–	–	–	–	1	–	–	3	–	–
CO3	3	3	2	1	–	–	–	–	1	–	–	3	–	–
CO4	3	3	2	1	–	–	–	–	1	–	–	3	–	–
CO5	3	3	2	1	–	–	–	–	1	–	–	3	–	–
	3	3	2	1	–	–	–	–	1	–	–	3	–	–

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

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II YEAR, SEM A July-Dec 2023

Subject Nomenclature: MATERIAL SCIENCE

Subject Code: ME26008

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	–	–	–	–	–	–	–	–	–	3	1	1
CO2	3	1	–	–	–	–	–	–	–	–	–	3	1	1
CO3	3	1	–	2	–	–	–	–	–	–	–	3	1	1
CO4	3	1	2	–	–	–	–	–	–	–	–	3	2	1
CO5	3	1	1	–	–	–	–	–	–	–	–	3	2	1
	3	1	1.5	2	–	–	–	–	–	–	–	3	1.4	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

II YEAR, SEM A July-Dec 2023

Subject Nomenclature: Thermodynamics

Subject Code: ME26005

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	1	–	–	–	–	–	–	–	3	3	1
CO2	3	3	3	3	–	–	1	–	–	–	–	3	3	2
CO3	3	3	2	2	–	–	–	–	–	–	–	3	3	1
CO4	1	3	2	1	–	–	–	–	–	–	–	3	3	3
CO5	3	3	2	1	–	–	1	–	–	–	–	3	3	2
	2.6	3	2.2	1.6	–	–	1	–	–	–	–	3	3	1.8

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

II YEAR, SEM B Jan-June 2024

Subject Nomenclature: MD-1

Subject Code: ME26551

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	1	1	–	–	–	–	–	–	–	3	3	3
CO2	3	3	3	1	–	–	–	–	–	1	–	3	3	3
CO3	3	3	3	1	–	–	–	–	–	1	–	3	3	3
CO4	3	3	3	1	–	–	–	–	–	1	–	3	3	3
CO5	3	3	3	1	–	–	–	–	–	1	–	3	3	3
	3	3	2.6	1	–	–	–	–	–	1.00	–	3	3	3

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

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II YEAR, SEM B Jan-June 2024

Subject Nomenclature: KOM

Subject Code: ME26562

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	–	–	–	–	–	–	–	–	3	3	1
CO2	3	3	2	–	–	–	–	–	–	–	–	3	3	1
CO3	3	2	2	–	–	–	–	–	–	–	–	3	3	1
CO4	3	2	2	–	–	–	–	–	–	–	–	3	3	1
CO5	3	2	2	–	–	–	–	–	–	–	–	3	3	1
	3	2.2	2	–	–	–	–	–	–	–	–	3	3	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

II YEAR, SEM B Jan-June 2024

Subject Nomenclature: Advanced Electronics

Subject Code: EC26554

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	–	–	–	–	–	–	–	–	–	–	1
CO2	3	2	2	2	–	–	–	–	–	–	–	1	–	1
CO3	3	2	2	2	–	–	–	–	–	–	–	1	–	2
CO4	3	2	3	–	–	–	–	–	–	–	–	1	–	1
CO5	3	2	3	3	2	–	–	–	–	–	–	1	–	3
	3	2	2.4	2.333	2	–	–	–	–	–	–	1	–	1.6

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

II YEAR, SEM B Jan-June 2024

Subject Nomenclature: MP-1

Subject Code: IP26552

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	–	2	–	2	2	2	–	–	–	–	3	–	2
CO2	3	2	2	2	2	2	–	2	–	–	–	3	3	3
CO3	3	2	2	2	2	2	–	–	2	–	2	3	3	3
CO4	3	2	3	2	2	2	–	–	–	2	–	3	3	3
CO5	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2.75	2	2.25	2	2	2	2	2	2	2	2	3	3	2.75

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

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II YEAR, SEM B Jan-June 2024

Subject Nomenclature: M-IV

Subject Code: MA26556

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	1	–	–	–	–	1	–	–	3	–	–
CO2	3	3	2	1	–	–	–	–	1	–	–	3	–	–
CO3	3	3	2	1	–	–	–	–	1	–	–	3	–	–
CO4	3	3	2	1	–	–	–	–	1	–	–	3	–	–
CO5	3	3	2	1	–	–	–	–	1	–	–	3	–	–
	3	3	2	1	–	–	–	–	1	–	–	3	–	–

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

II YEAR, SEM B Jan-June 2024

Subject Nomenclature: Economics for Engineers

Subject Code: HU26507

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	–	–	–	–	–	–	–	–	–	–	2	–	2	1
CO2	–	–	–	–	–	–	–	–	–	–	3	–	2	1
CO3	–	–	–	–	–	–	–	–	–	–	3	–	2	1
CO4	–	–	–	–	–	–	–	–	–	–	2	–	2	1
CO5	–	–	–	–	–	–	–	–	–	–	3	–	2	1
	–	–	–	–	–	–	–	–	–	–	2.6	–	2	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

III YEAR, SEM A July-Dec 2023

Subject Nomenclature: Dynamics of Machines

Subject Code: ME36011

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	–	–	–	–	–	–	–	–	2	3	1
CO2	3	1	1	–	–	–	–	–	–	–	–	2	3	2
CO3	3	2	1	–	–	–	–	–	–	–	–	2	3	1
CO4	3	2	2	–	–	–	–	–	–	–	–	2	3	2
CO5	3	3	2	1	–	–	–	–	–	–	–	2	3	1
	3	2	1.6	1	–	–	–	–	–	–	–	2	3	1.4

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

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Subject Nomenclature: Measurement and Automatic Control

Subject Code: ME36003

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	–	–	–	–	–	–	–	–	–	–	2	1	1
CO2	3	3	3	–	–	–	–	–	–	–	–	2	1	1
CO3	3	2	3	1	–	–	–	–	–	–	–	2	1	1
CO4	3	3	3	–	–	–	–	–	–	–	–	2	2	1
CO5	3	3	3	1	–	–	–	–	–	–	–	2	1	1
	3	2.75	3	1	–	–	–	–	–	–	–	2	1.2	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

III YEAR, SEM A July-Dec 2023

Subject Nomenclature: Heat and Mass Transfer

Subject Code: ME36003

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	1	2	–	–	–	–	2	3	3
CO2	3	3	3	3	2	–	–	–	–	–	–	2	3	3
CO3	3	3	3	3	3	–	–	–	–	–	–	2	3	3
CO4	3	3	3	3	3	–	1	–	–	–	–	2	3	3
CO5	3	3	3	3	–	–	–	–	–	–	–	2	3	3
	3	3	3	3	2.75	1	1.5	–	–	–	–	2	3	3

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

III YEAR, SEM A July-Dec 2023

Subject Nomenclature: Steam and Gas Power Systems

Subject Code: ME36007

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	–	–	–	–	–	–	–	–	2	3	1
CO2	3	3	2	–	–	–	–	–	–	–	–	2	3	1
CO3	3	3	2	–	–	–	–	–	–	–	–	2	3	1
CO4	3	3	2	–	–	–	–	–	–	–	–	2	3	1
CO5	3	3	2	–	–	–	–	–	–	–	–	2	3	1
	3	3	2	–	–	–	–	–	–	–	–	2	3	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

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III YEAR, SEM A July-Dec 2023

Subject Nomenclature: Manufacturing Process-II

Subject Code: IP36062

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	–	2	–	2	2	2	–	–	–	–	2	–	2
CO2	3	2	2	2	2	2	–	2	–	–	–	2	3	3
CO3	3	2	2	2	2	2	–	–	2	–	2	2	3	3
CO4	3	2	3	2	2	2	–	–	–	2	–	2	3	3
CO5	3	2	1	1	–	–	–	–	–	1	–	1	1	1
	2.8	2	2	1.75	2	2	2	2	2	1.5	2	1.8	2.5	2.4

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

III YEAR, SEM B Jan-June 2024

Subject Nomenclature: RAC

Subject Code: ME36501

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2	–	–	–	–	–	–	–	2	3	1
CO2	3	3	2	3	–	–	1	–	–	–	–	2	3	1
CO3	3	2	2	2	–	–	–	–	–	–	–	2	3	1
CO4	3	3	2	2	–	–	–	–	–	–	–	2	3	1
CO5	3	3	2	2	–	–	–	–	–	–	–	2	3	1
	3	2.8	2	2.2	–	–	1	–	–	–	–	2	3	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

III YEAR, SEM B Jan-June 2024

Subject Nomenclature: MD-II

Subject Code: ME36503

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	–	–	2	–	–	–	–	2	3	1
CO2	3	3	3	3	1	–	–	–	–	–	–	2	3	1
CO3	3	3	3	3	1	–	–	–	–	–	–	2	3	1
CO4	3	3	3	3	1	–	–	–	–	–	–	2	3	1
CO5	3	3	3	3	2	–	–	–	–	–	–	2	3	1
	3	3	3	3	1.25	–	2	–	–	–	–	2	3	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

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III YEAR, SEM B Jan-June 2024

Subject Nomenclature: Fluid Machinery

Subject Code: ME36506

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	3	1	–	–	–	2	–	–	2	3	2
CO2	3	2	2	3	1	–	–	–	2	–	–	2	3	2
CO3	3	2	2	3	3	–	–	–	2	–	–	2	3	1
CO4	3	2	2	2	1	–	–	–	–	–	–	2	3	1
CO5	3	3	3	2	–	–	–	–	–	–	–	2	3	2
	3	2.2	2.2	2.6	1.5	–	–	–	2	–	–	2	3	1.6

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

III YEAR, SEM B Jan-June 2024

Subject Nomenclature: IC Engines

Subject Code: ME36509

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	–	–	2	–	–	–	–	2	3	1
CO2	3	3	3	3	1	–	–	–	–	–	–	2	3	1
CO3	3	3	3	3	1	–	–	–	–	–	–	2	3	1
CO4	3	3	3	3	1	–	–	–	–	–	–	2	3	1
CO5	3	3	3	3	2	–	–	–	–	–	–	2	3	1
	3	3	3	3	1.25	–	2	–	–	–	–	2	3	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

III YEAR, SEM B Jan-June 2024

Subject Nomenclature: IE&PM

Subject Code: IP36504

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	–	–	–	–	–	–	–	–	1	3	1
CO2	3	3	2	–	–	–	–	–	–	–	–	1	3	1
CO3	3	2	2	–	–	–	–	–	–	–	–	1	3	1
CO4	3	2	2	–	–	–	–	–	–	–	–	1	3	1
CO5	3	2	2	–	–	–	–	–	–	–	–	1	3	1
	3	2.2	2	–	–	–	–	–	–	–	–	1	3	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

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III YEAR, SEM B Jan-June 2024

Subject Nomenclature: Internship/Minor Project

Subject Code: ME36581

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	–	–	–	–	–	1	2	–	3	3	–	3	3	3
CO2	3	3	3	3	3	3	–	–	–	–	–	3	3	3
CO3	3	–	–	–	–	–	1	–	–	–	2	3	3	3
CO4	–	–	–	–	–	–	–	3	–	–	–	3	–	1
CO5	–	–	–	–	–	–	–	3	3	3	–	3	–	1
	3	3	3	–	–	–	–	–	–	–	–	3	3	2.2

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

IV YEAR, SEM A July-Dec 2023

Subject Nomenclature: Automobile Engineering

Subject Code: ME46018

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3.0	3.0	2.0	–	–	–	–	–	–	–	–	1.0	–	2.0
CO2	3.0	3.0	–	–	–	–	–	–	–	–	–	1.0	–	1.0
CO3	3.0	3.0	2.0	–	–	–	–	–	–	–	–	1.0	1.0	1.0
CO4	3.0	3.0	1.0	–	–	–	–	–	–	–	–	1.0	2.0	1.0
CO5	3.0	3.0	–	–	–	–	–	–	–	–	–	1.0		1.0
	3.0	3.0	1.7	–	–	–	–	–	–	–	–	1.0	1.5	1.2

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

IV YEAR, SEM A July-Dec 2023

Subject Nomenclature: CAD

Subject Code: ME46020

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	–	1	2	–	–	–	–	–	–	–	2	3	1
CO2	2	3	2	–	2	–	–	–	–	–	–	2	3	1
CO3	3	3	3	–	1	–	–	–	–	–	–	1	3	1
CO4	3	2	2	2	2	1	2	–	–	–	–	1	3	1
CO5	3	2	2	2	3	–	2	–	–	–	–	3	3	1
	2.8	2.5	2	2	2	1	2	–	–	–	–	1.8	3	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

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IV YEAR, SEM A July-Dec 2023

Subject Nomenclature: Vibration & Noise Control

Subject Code: ME46051

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	–	–	–	–	–	–	–	–	1	2	2
CO2	3	3	2	–	–	–	–	–	–	–	–	1	2	2
CO3	3	3	2	–	–	–	–	–	–	–	–	1	2	2
CO4	3	3	2	2	1	–	2	–	–	–	–	1	2	2
CO5	3	3	2	–	1	3	2	–	–	–	–	1	2	2
	3	3	2	2	1	3	2	–	–	–	–	1	2	2

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

IV YEAR, SEM A July-Dec 2023

Subject Nomenclature: Mechatronics & Automation

Subject Code: ME46218

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	–	2	–	–	–	–	–	–	2	2	2
CO2	2	3	3	2	2	–	–	–	–	–	–	1	3	2
CO3	2	1	–	–	–	–	–	–	–	–	–	1	3	–
CO4	2	2	2	–	–	–	–	–	–	–	–	2	2	–
CO5	2	–	–	–	–	–	–	–	–	–	–	1	2	–
	2	2	2.333	2	2	–	–	–	–	–	–	1.4	2.4	2

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

IV YEAR, SEM A July-Dec 2023

Subject Nomenclature: Advanced Machine Design

Subject Code: ME46219

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	–	–	–	–	–	–	–	–	1	3	1
CO2	3	3	2	–	–	–	–	–	–	–	–	1	3	1
CO3	3	2	2	–	–	–	–	–	–	–	–	1	3	1
CO4	3	2	2	–	–	–	–	–	–	–	–	1	3	1
CO5	3	2	2	–	–	–	–	–	–	–	–	1	3	1
	3	2.2	2	–	–	–	–	–	–	–	–	1	3	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

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IV YEAR, SEM A July-Dec 2023

Subject Nomenclature: Data Science and Machine Learning

Subject Code: ME46317

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	1	1	2	1	–	–	–	–	–	1	1	1
CO2	3	3	1	1	2	1	–	–	–	–	–	1	1	1
CO3	3	3	1	1	2	1	–	–	–	–	–	1	1	1
CO4	3	3	1	1	2	1	–	–	–	–	–	1	1	1
CO5	3	3	1	1	2	1	–	–	–	–	–	1	1	1
	3	3	1	1	2	1	–	–	–	–	–	1	1	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

IV YEAR, SEM A July-Dec 2023

Subject Nomenclature: Hydraulic pneumatic & Fluidic Control

Subject Code: ME46315

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	1	–	–	–	–	–	–	–	–	1	2	2
CO2	3	2	2	2	1	–	–	–	–	–	–	1	2	2
CO3	3	1	1	–	–	–	–	–	–	–	–	1	2	1
CO4	3	2	2	2	1	–	–	–	–	–	–	1	2	2
CO5	2	2	2	2	1	–	–	–	–	–	–	1	2	2
	2.8	1.6	1.6	2	1	–	–	–	–	–	–	1	2	1.8

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

IV YEAR, SEM A July-Dec 2023

Subject Nomenclature: Industrial Training/ Minor project

Subject Code: ME46481

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	–	–	–	–	–	1	2	–	3	3	–	3	3	3
CO2	3	3	3	3	3	3	–	–	–	–	–	3	3	3
CO3	3	–	–	–	–	–	1	–	–	–	2	3	3	3
CO4	–	–	–	–	–	–	–	3	–	–	–	3	–	1
CO5	–	–	–	–	–	–	–	3	3	3	–	3	–	1
	3	3	3	3	3	2	1.5	3	3	3	2	3	3	2.2

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

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IV YEAR, SEM A July-Dec 2023

Subject Nomenclature: Major Project Phase-I

Subject Code: ME46498

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	–	–	–	–	2	–	–	–	2	3	1	3	–	–
CO2	–	2	–	2	–	–	–	–	–	–	–	3	–	–
CO3	3	3	–	–	–	–	–	–	–	–	–	3	2	–
CO4	3	3	2	2	3	–	–	–	2	–	–	3	1	2
CO5	–	–	–	–	–	–	–	–	1	3	2	3	–	–
	3.0	2.7	2.0	2.0	2.5	–	–	–	1.7	3.0	1.5	3.0	1.5	2.0

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

IV YEAR, SEM B Jan-June 2024

Subject Nomenclature: Artificial Intelligence (E-III)

Subject Code: ME 46671

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	2	1	1	2	–	–	–	–	1	3	2
CO2	3	2	1	2	2	2	2	–	–	–	–	1	3	2
CO3	3	2	1	–	2	2	–	–	–	–	–	–	3	1
CO4	3	2	1	–	1	1	–	–	–	–	–	–	3	1
CO5	3	2	1	–	1	–	–	–	–	–	–	–	3	2
	3	2	1	2	1.4	1.5	2	–	–	–	–	1	3	1.6

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

IV YEAR, SEM B Jan-June 2024

Subject Nomenclature: Renewal Energy (E-III)

Subject Code: ME 46668

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	2	–	–	2	2	–	–	–	–	2	3	1
CO2	3	2	2	2	1	–	–	–	–	–	–	2	3	1
CO3	3	1	1	–	2	2	–	–	–	–	–	2	3	1
CO4	3	1	–	–	2	2	2	–	–	–	–	2	3	1
CO5	3	–	–	–	–	1	1	–	–	–	–	2	3	1
	3.0	1.3	1.7	2.0	1.7	1.8	1.7	–	–	–	–	2.0	3.0	1.0

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

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IV YEAR, SEM B Jan-June 2024

Subject Nomenclature: COMPOSITE MATERIALS

Subject Code: ME46667

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	1	1	–	–	–	–	–	–	1	2	1
CO2	3	2	1	1	1	–	–	–	–	–	–	1	2	1
CO3	3	2	1	1	1	–	–	–	–	–	–	1	2	1
CO4	3	2	1	–	–	–	–	–	–	–	–	1	2	1
CO5	3	2	1	–	–	–	–	–	–	–	–	1	2	1
	3	2	1	1	1	–	–	–	–	–	–	1	2	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

IV YEAR, SEM B Jan-June 2024

Subject Nomenclature: ROBOTICS

Subject Code: ME4660A

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	1	–	1	1	–	–	–	–	2	2	1
CO2	3	2	1	1	–	–	–	–	–	–	–	2	2	1
CO3	3	1	1	–	–	–	–	–	–	–	–	2	1	1
CO4	3	1	1	–	–	–	–	–	–	–	–	2	1	1
CO5	3	1	1	–	–	–	–	–	–	–	–	2	1	1
	3	1.4	1	1	–	1	1	–	–	–	–	2	1.4	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

IV YEAR, SEM B Jan-June 2024

Subject Nomenclature: 3D PRINTING AND DESIGN

Subject Code: ME46706

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	–	3	–	–	–	–	–	–	1	3	2
CO2	3	2	3	–	–	–	–	–	–	–	–	1	3	2
CO3	3	2	3	–	–	–	1	–	–	–	–	1	3	2
CO4	3	3	2	–	–	–	–	–	–	–	–	1	3	2
CO5	3	2	2	–	3	–	–	–	–	–	–	1	3	2
	3	2.2	2.4	–	3	–	1	–	–	–	–	1	3	2

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

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IV YEAR, SEM A July-Dec 2023

Subject Nomenclature: Computational Fluid Dynamics

Subject Code: MEXXXX

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	2	2	1	1	–	–	–	–	2	2	1
CO2	3	2	1	2	2	1	1	–	–	–	–	2	2	1
CO3	3	1	1	1	1	1	1	–	–	–	–	2	2	1
CO4	3	1	1	1	1	–	–	–	–	–	–	2	2	1
CO5	3	1	1	1	–	–	–	–	–	–	–	2	2	1
	3	1.4	1	1.4	1.5	1	1	–	–	–	–	2	2	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

IV YEAR, SEM B Jan-June 2024

Subject Nomenclature: DESIGN OF THERMAL SYSTEMS

Subject Code: ME 46704

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	1	2	1	–	–	–	–	–	–	2	3	2
CO2	3	3	2	1	–	–	–	–	–	–	–	2	3	2
CO3	3	3	2	3	–	–	–	–	–	–	–	2	3	2
CO4	3	3	2	2	–	–	–	–	–	–	–	2	3	2
CO5	3	1	1	1	1	2	1	–	–	–	–	2	3	2
	3	2.6	1.6	1.8	1	2	1	–	–	–	–	2	3	2

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

IV YEAR, SEM B Jan-June 2024

Subject Nomenclature: ENGINEERING OPTIMIZATION

Subject Code: ME 46705

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	2	–	1	1	–	–	–	–	2	2	1
CO2	3	2	1	2	–	1	1	–	–	–	–	2	2	1
CO3	3	1	1	1	–	1	1	–	–	–	–	2	2	1
CO4	3	1	1	1	–	–	–	–	–	–	–	2	2	1
CO5	3	1	1	1	–	–	–	–	–	–	–	2	2	1
	3	1.4	1	1.4	–	1	1	–	–	–	–	2	2	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

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IV YEAR, SEM B Jan-June 2024

Subject Nomenclature: FINITE ELEMENT METHODS

Subject Code: ME46670

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	1	1	1	–	–	–	–	–	2	1	1
CO2	3	2	1	1	1	1	–	–	–	–	–	2	1	1
CO3	3	2	1	1	1	1	–	–	–	–	–	2	1	1
CO4	3	2	1	–	–	–	–	–	–	–	–	2	1	1
CO5	3	2	1	1	–	–	–	–	–	–	–	2	1	1
	3	2	1	1	1	1	–	–	–	–	–	2	1	1

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

IV YEAR, SEM B Jan-June 2024

Subject Nomenclature: Industrial Training/ Minor project

Subject Code: ME46882

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	–	–	–	–	–	1	2	–	3	3	–	3	3	3
CO2	3	3	3	3	3	3	–	–	–	–	–	3	3	3
CO3	3	–	–	–	–	–	1	–	–	–	2	3	3	3
CO4	–	–	–	–	–	–	–	3	–	–	–	3	–	1
CO5	–	–	–	–	–	–	–	3	3	3	–	3	–	1
	3	3	3	3	3	2	1.5	3	3	3	2	3	3	2.2

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”

IV YEAR, SEM B Jan-June 2024

Subject Nomenclature: Major Project Phase II

Subject Code: ME46998

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	–	–	–	–	2	–	–	–	2	3	1	3	2	2
CO2	–	2	–	2	–	–	–	–	–	–	–	3	2	2
CO3	3	3	–	–	–	–	–	–	–	–	–	3	2	2
CO4	3	3	2	2	3	–	–	–	2	–	–	3	1	2
CO5	–	–	–	–	–	–	–	–	1	3	2	3	2	2
	3	2.67	2	2	2.5	–	–	–	1.67	3	1.5	3	1.8	2

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “–”